Oda, Ryohei and Hayashi, Yoshiyuki.
SYNTHESES OF SOME HETEROCYCLIC COMPOUNDS WITH LONG ALKYL SIDE-CHAINS AND THEIR APPLICATIONS AS WATER-REPELLING AGENTS FOR TEXTILES. [1962] 15p. 7 refs.
Order from SLA $1.60 62-14966

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 7, p. 1230-1233.

DESCRIPTORS: *Textiles, *Moistureproofing, *Heterocyclic compounds, Synthesis, Alkyl radicals, Molecular structure.

(Materials--Textiles, TT, v. 9, no. 5)

62-14966

I. Oda, R.
II. Hayashi, Y.

62-34498

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takimoto, Masayoshi.
DETERMINATION OF MELAMINE, AMMELINE, AMMELIDE, AND CYANURIC ACID BY ION-EXCHANGE SEPARATION AND ULTRAVIOLET ABSORPTIOMETRY. Rept. 8 of Studies on Separation-Determination Methods for Cyanamide Derivatives.
[1961] 17p.
Order from SLA $1.60 62-10223

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 7, p. 1234-1238.

DESCRIPTORS: *Cyanamides, Amides, Cyanuric acid, Acids, Melamine, Determination, Separation, Ion exchange, Chromatographic analysis, Ultraviolet spectroscopy.

Separations and determination of ammeline, ammelide, and cyanuric acid, which are formed by the hydrolysis (over)
(Chemistry--Analytical, TT, v. 7, no. 9)

62-10223

I. Takimoto, M.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fukumoto, Osamu.
ON THE KINETICS OF BECKMANN'S REARRANGEMENT. Rept. 4 of Studies on the Production of ε-Caprolactam. Oct 62, 12p. 5 refs.
Order from SA $19.00 SA Code-G511

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 7, p. 1285-1289.

DESCRIPTORS: *Lactams, Production, Sulfuric acid, Cyclohexanones, Oximes, Ionization, Dehydration, *Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 1)

63-12094

1. Title: Beckmann's rearrangement
I. Fukumoto, O.
II. Title: Studies...
III. SA Code-G511
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

The Thermal Expansion and Vitrification of Epoxy Resins Hardened With Acid Anhydrides, by Akio Shimazaki, 11 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXIV, 1961, pp 1291-1294. 9226572
AEC-SC-T-64-2009

Sci-Chem
Jan 65

27@1,829

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Sulfochlorination of Polypropylene, by
T. Chshika.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64,
No 7, 1961, pp 1299-1302.
ATS-JS-192

Sci-Chem
Mar 70

403,867

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Sobue, Hiroshi and Saito, Yoshitami.
POLYMERIZATION OF n-BUTYLVINYL ETHER WITH THE AID OF ZIEGLER CATALYST. Oct 62, 5p.
5 refs.
Order from SA $15.00 SA Code-G524

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 7, p. 1321-1327.

DESCRIPTORS: *Butyl radicals, *Vinyl radicals, Ethers, Polymerization, Catalysts, Aluminum, Titanium.

(Chemistry--Organic, TT, v. 8, no. 12)

62-34464

I. Title: Ziegler catalysts
I. Sobue, H.
II. Saito, Y.
III. SA Code-G524
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

A Study on the Reducing Reaction of Titanium Tetrachloride to Titanium Trichloride, by T. Ishino.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, 1961, pp 1344-1347.
NTC-71-15651-07B

Feb 72

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagase, T. and Kozima, L.
PREPARATION OF PERFLUOROCARBOXYLIC ACIDS BY ELECTROCHEMICAL FLUORINATION ALCOHOLS. [1962] 10p. (2 figs. 2 tables 11 refs. omitted).
Order from SLA $1.10 62-14874

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, [no. 8] p. 1397-1400.

DESCRIPTORS: *Carboxylic acids, Acetic acids, Propionic acids, Fluorides, Preparation, *Electrochemistry, *Alcohols, Ethanols, Propanols, Butanols, *Fluorination.

Relatively high yields of porfluorocarboxylic acids have been obtained by electrochemical fluorination of alcohols. About 30 g. of ethyl alcohol, n-propyl alcohol, isopropyl alcohol, or n-butyl alcohol was dissolved in 1 l. of anhydrous hydrogen fluoride, and electrolyzed at various
(Chemistry--Organic, TT, v. 9, no. 4) (over)

62-14874

I. Nagase, T.
II. Kozima, L.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagase, Shunji.
FLUORINATION OF MALEIC ANHYDRIDE BY FLUORINE GAS. [1962] 6p. (2 figs. 2 tables 9 Japanese refs. 1 formula omitted) 2 refs.
Order from SLA $1.10 62-16185

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 8, p. 1400-1403.

DESCRIPTORS: *Maleic anhydride, Fluorination, *Flourine, Gases, Jets, Towers (Chemistry).

In the direct fluorination of maleic anhydride with fluorine by means of an improved jet reactor, perfluoropropionyl fluoride was obtained at a fairly high yield rate through successive operations of the reactor. This suggests a new method of perfluoropropionyl fluoride production. It became apparent that the use of said reactor makes maleic anhydride
(Chemistry--Organic, TT, v. 8, no. 9) (over)

62-16185

I. Nagase, S.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takimoto, Masayoshi.
SEPARATION OF MELAM AND MELEM, AND THEIR SIMPLE DETERMINATION BY THE SPECTROPHOTOMETRIC METHOD. Rept. no. 9 of Studies on Separation [and] Determination methods for Cyanamide Derivatives. [1962] 15p. 11 refs. Order from SLA $1.60 62-10684

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 8, p. 1452-1455.

DESCRIPTORS: *Cyanamides, *Melamine, *Melem, Separation, *Ion exchange, Spectrographic analysis.

(Chemistry--Analytical, TT, v. 8, no, 11)

62-10684

I. Title: Melam
II. Takimoto, M.
III. Title: Studies...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takimoto, Masayoshi.
INVESTIGATION OF THE SEPARATION AND DETERMINATION OF COMPOUNDS WHICH FORM BY MELAMINE-FORMING REACTION AND BY HYDROLYSIS OF THEIR HEAT-CONDENSATES (CYANOMELAMINE, GUANYLMELAMINE, CYAMELURIC ACID, ETC.). Rept. no. 10 of Studies on Separation [and] Determination Methods for Cyanamide Derivatives. [1962] 15p. 13 refs.
Order from SLA $1.60 62-10685

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 8, p. 1456-1460.

DESCRIPTORS: *Cyanamides, *Melamine, Separation, Determination, Hydrolysis, Ion exchange resins, Ultraviolet spectroscopy, Absorption spectra, Chromatographic analysis.

(Chemistry--Analytical, TT, v. 8, no. 9)

62-10685

1. Takimoto, M.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ide, Fumio.
THE MOLECULAR WEIGHT OF POLYMETHYL METHACRYLATE IN CELLULOSE-METHYL METHACRYLATE GRAFT COPOLYMER. Rept. no. 8 of Studies on Vinyl Polymerization. [1962]15p. 15 refs.
Order from SLA $1.60 62-10689

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 8, p. 1489-1493.

DESCRIPTORS: *Acrylic resins, Polymers, Molecular weight, *Cellulose, Plastics.

The relationship between the degree of polymerization and polymerization conditions was investigated with respect to polymethyl methacrylate which had been isolated by sulfuric acid-hydrolyzing cellulose-methyl methacrylate graft copolymer, which had been obtained by using ceric ammonium salt as (Materials--Plastics, TT, v. 8, no. 9) (over)

62-10689

1. Title: Graft polymers
I. Ide, F.
II. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

62-34501

Ishii, Yoshiro, Sekiguchi, Jinen, and Hattori, Masaaki.
POLYMERIZATION OF PROPYLENE OXIDE WITH METAL ALKOXIDES. Rept. 2 of Studies on the Polymerization of Epoxy-Compounds. Oct 62, 31p. 12 refs.
Order from SA $30.00 SA Code-G564

Trans. in manuscript of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 8, p. 1497-1501.

DESCRIPTORS: *Epoxides, *Propenes, Oxides, Polymerization, Catalysts, Magnesium compounds, Cobalt compounds, Iron compounds, Aluminum compounds, Lithium compounds.

(Materials--Plastics, TT, v. 8, no. 12)

I. Ishii, Y.
II. Sekiguchi, J.
III. Hattori, M.
IV. Title: Studies ...
V. SA Code-G564
VI. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Hashimoto, Hidehisa and Ito, Mikio.
A RECORDING MICRO THERMOBALANCE. Rept. 7 of Study on the Thermal Degradation of Solid. Oct 62, 26p. 7 refs.
Order from SA $28.00 SA Code-G572

Trans. in manuscript of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1515-1518.

DESCRIPTORS: *Laboratory equipment, *Recording systems, *Torsion balances, Tungsten wire, Pyrolysis, Solids.

(Engineering--Chemical, TT, v. 9, no. 1)

63-12095

I. Hashimoto, H.
II. Ito, M.
III. Title: Study...
IV. SA Code-G572
V. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ioda, T. and others.
RAY DIFFRACTION PROFILES OF MIXTURES OF
ARIOUS TYPES OF ELECTROGRAPHITIZED CAR-
N. [1963] [13p] [preface omitted] 5refs
der from SLA $1.60 TT-64-14353

ans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64
o. 9] p. 1523-1527.

ESCRIPTORS: *Carbon, Graphite, *Carbon black,
oke, X-ray diffraction analysis.

hysics--Solid State, TT, v. 11, no. 9)

TT-64-14353

1. Noda, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Morikawa, Kiyoshi and Nozaki, Fumio.
REDUCIBILITY BY H_2, SOLUBILITY IN DILUTE HCl SOLUTION, AND REACTIVITY OF REDUCED CATALYST WITH CO. Pt. 1 of Surface Composition and Chemical Properties of the Supported Nickel Catalysts; Pt. 3 of Study on the Selective Catalytic Action of the Supported Nickel Catalysts. Oct 62, 24p. 10 refs.
Order from SA $24.00 SA Code-G585

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1562-1567.

DESCRIPTORS: *Nickel catalysts, Surface properties, Chemical properties, Hydrogen, Reduction, Hydrochloric acid, Solubility, Carbon compounds, Monoxides, Chemical reactions.

(Chemistry--Physical, TT, v. 8, no. 12)

62-34465

I. Morikawa, K.
II. Nozaki, F.
III. Title: Surface ...
IV. Title: Study ...
V. SA Code-G585
VI. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Morikawa, Kiyoshi and Nozaki, Fumio.
X-RAY ANALYSIS, INFRARED SPECTRUM ANALYSIS, AND DIFFERENTIAL THERMAL ANALYSIS. Pt. 2 of Surface Composition and Chemical Properties of the Supported Nickel Catalysts; Pt. 4 of Study on the Selective Catalytic Action of the Supported Nickel Catalysts. Oct 62, 20p. 12 refs.
Order from SA $21.00 SA Code-G586

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1568-1573.

DESCRIPTORS: *Nickel catalysts, Surface properties, Chemical properties, X-ray diffraction analysis, Infrared spectroscopy, Pyrolysis.

(Chemistry--Physical, TT, v. 8, no. 12)

62-34466

I. Morikawa, K.
II. Nozaki, F.
III. Title: Surface ...
IV. Title: Study ...
V. SA Code-G586
VI. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

62-18748

Shigematsu, Hiroshi, Suzuki, Masaji, and Ishii, Yoshiro.
RATE OF SUCCESSIVE ADDITIONS OF PROPYLENE OXIDE TO VARIOUS ALCOHOLS. Pt. 4 of [Studies of the Kinetics on the Ring Opening Addition of Epoxy Compounds to the Active Hydrogen Compound]. [1962] [21]p. 11 refs.
Order from SLA $2.60 62-18748

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64 [no. 9] p. 1585-1588.

DESCRIPTORS: *Propanes, *Epoxides, *Propenes, Oxides, *Alcohols, Chemical reactions, Reaction kinetics, Catalysts, Sodium compounds, Hydroxides

The reaction products of active hydrogen compounds and propylene oxide have several isomers depending on the cleavage position in the oxyran ring. The hydroxyl groups of these isomers may be primary or secondary. (Chemistry--Physical, TT, v. 10, no. 1) (over)

1. Shigematsu, H.
II. Suzuki, M.
III. Ishii, Y.
IV. Title: Studies...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ohki, Y., Ochiai, M., and Komori, S.
THE REACTIONS OF HIGHER ALIPHATIC ALCOHOLS WITH ETHYLENE OXIDE USING TERT.-AMINE CATALYSTS. [1963] 14p 3refs
Order from SLA $1.60 TT-64-10502

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64 [no. 9] p. 1588-1592. (Abstract available)

DESCRIPTORS: *Surface-active substances, Synthesis (Chemistry), *Alcohols, *Ethylene oxide, *Catalysts, *Amines, Bases (Chemistry), Reaction kinetics,

It was found that tertiary amines are effective catalysts for the reactions of ethylene oxide with higher fatty alcohols at lower temperatures. The fact that a maximum exists at about 80°C suggests a difference in the catalytic mechanism from the case when KOH is used. Although the more basic amines exhibit greater catalytic effect, the steric effect of the amine structure appears to be a more important consideration. (Author)

TT-64-10502

I. Ohki, Y.
II. Ochiai, M.
III. Komori, S.

(Chemistry--Organic, TT, v. 11, no. 9)
Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Taniguchi, H., Funakubo, E., and Kishino, H.
SEPARATION CAPACITY OF SILICA-GEL FOR HYDRO
CARBONS. 16p.
Order from OTS or ETC $1.85 62-26136

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1961,
v. 64, no. 9, p. 1620-1623.

DESCRIPTORS: *Hydrocarbons, *Adsorbents,
Silicon compounds, Dioxides.

(Chemistry--Analytical, TT, v. 9, no. 8)

62-26136

I. Taniguchi, H.
II. Funakubo, E.
III. Kishino, H.

Office of Technical Services

PB-

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takamuku, Setsuo and Yahama, Yoshikazu.
ON LIGNIN CARBOHYDRATE COMPLEX ISOLATED FROM IRRADIATED WOOD POWDER. May 62 [8]p. (figs. omitted) 11 refs. FPRB Trans. no. 155.
Order from NRCC NRCC C-4405
Trans. of [Kogyo Kagaku Zasshi] (Japan) 1961, v. 64 [no. 9] p. 1662-1664.

DESCRIPTORS: *Lignin, Carbohydrates, *Radiation effects, Wood, Production, *Wood pulp.

(Materials--Wood, TT, v. 10, no. 3)

63-17539

I. Takamuku, S.
II. Yahama, Y.
III. FPRB Trans-155
IV. NRCC C-4405
V. Forest Products Research Branch (Canada)
VI. Bureau of Translations (Canada)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fukumoto, Osamu.
ON THE IMPURITIES CONTAINED IN ε-CAPROLACTAM. Rept. no. 5 of Studies on the Production of ε-Caprolactam. Oct 62, 9p. 5 refs.
Order from SA $18.00 SA Code-G610

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1668-1670.

DESCRIPTORS: *Lactams, Production, Impurities, Anilines, Ammonium radicals, Acetates, Nitrobenzenes.

(Chemistry--Organic, TT, v. 8, no. 12)

62-34499

1. Title: Caprolactams
I. Fukumoto, O.
II. Title: Studies ...
III. SA Code-G610
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ide, Fumio.
GRAFT POLYMERIZATION OF METHYL METHACRYLATE ON POLYVINYL ALCOHOL. [1962] 4p. 12refs.
Order from SLA $2.60 62-14967

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1676-1681.

DESCRIPTORS: *Graft polymers, *Acrylic resins, Methyl radicals, Polymerization, *Vinyl alcohols, Catalysts, *Cerium compounds, Salts, Nitric acid.

(Chemistry--Organic, TT, v. 9, no. 4)

62-14967

1. Title
I. Ide, F.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Hashimoto, Shizunobu, Furukawa, Isao, and Yanagawa, Tetsunosuke.
SYNTHESIS OF ORGANO-PHOSPHORUS ACID DIALLYL ESTERS AND THE INCLUENCE OF CHEMICAL STRUCTURE ON THE POLYMERIZATION CHARACTERISTICS AND INFLAMMABILITY OF THEIR POLYMERS. Oct. 62, 17p. 12 refs.
Order from SA $21.00 SA Code-G613

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 9, p. 1682-1686.
Another trans. is available from SLA $1.60 as 62-18039 [1962] 20p.

DESCRIPTORS: *Phosphorus acids, Allyl radicals, *Esters, Chlorides, Phosphines, Synthesis, Molecular structure, Polymerization, Inflammable materials, Combustion.
(Chemistry--Organic, TT, v. 8, no. 12)

62-34500

I. Hashimoto, S.
II. Furukawa, I.
III. Yanagawa, T.
IV. SA Code-G613
V. Seizaburo Aoki (Japan)

62-18039

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Infrared Spectra of Sulfochlorinated Polypropylene,
by T. Ohshika.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, No 10,
1961, pp 1855-1859.
ATS-JS-193

Sci-Chem
Mar 70

403,868

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ohshika, Takao.
THE THERMAL DEGRADATION OF POLYPROPYLENE DERIVATIVES. Rept. 9 of Studies on Polypropylene.
Oct 62, 32p. 10 refs.
Order from SA $30.00 SA Code-G646

Trans. in manuscript of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 10, p. 1859-1864.

DESCRIPTORS: *Propenes, Polymers, Sulfur compounds, Chlorine compounds, Pyrolysis, Infrared spectroscopy, Reaction kinetics, Chemical bonds.

(Chemistry--Physical, TT, v. 8, no. 12)

52-34502

I. Ohshika, T.
II. Title: Studies ...
III. SA Code-G646
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Studies of the Deposition of Carbon in the Manufacture of Synthetic Gases from Natural Gas X Composition of Gaseous Products and Carbon Deposition on the Partial Oxidation of Methane, by K. Muraosa, 10pp
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, 1961, No 11, pp 1939-1942
SIA TT-64-30140

Sci - Eng
May 67

327,400

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Shima, K. and Tsutsumi, S.
PHOTOCHEMICAL REACTION OF METHYL FORMATE IN CYCLOHEXANE. Pt. 3 of Studies of Photochemical Reactions. [1962] 5p.
Order from ATS $6.50 ATS-85P61J

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 11, p. 1945-1948.

DESCRIPTORS: *Photochemical reactions, Methyl radicals, *Formates, *Cyclohexanes.

(Chemistry--Organic, TT, v. 8, no. 7)

62-22151

I. Shima, K.
II. Tsutsumi, S.
III. Title: Studies ...
IV. ATS-85P61J
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Narasaki, Toshio.
SOME PROPERTIES OF CATIONIC POLY-SOAP MIXTURES WITH NON-IONIC SURFACTANTS. [1962] 9p.
Order from SLA $1.10 63-10315

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64 [no. 11] p. 1955-1957.

DESCRIPTORS: Polymers, *Soaps, Mixtures, Vinyl radicals, Ethyl radicals, *Pyridines, *Bromocarbons, Physical properties, Viscosity, Surface tension, Colloids, Foams, *Surface-active substances, *Ethylenes.

Some properties of cationic poly-soap mixtures (nitrogen atom in poly- α-vinyl-β-ethylpyridine made quaternary 29.3% by dodecyl bromide, 36.0% by ethyl bromide) with several non-ionic surfactants (Polyoxy-
(Materials, TT, v. 10, no. 2) (over)

63-10315

I. Narasaki, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Yamashita, Chiaki; Asami, Akiharu and Kuriyama, Sutezo.
AIR OXIDATION OF SP WASTE SOLUTION. [1962] 12p. (figs. tables omitted) 7 refs.
Order from SLA $1.60 63-10754

Trans. of Kogya Kagaku Zasshi (Japan) 1961, v. 64, no. 11, p. 2014-2017.

DESCRIPTORS: Air, Oxidation, Industrial production, Chemical reactions, Organic compounds, Lignin, Wood pulp, *Sulfate pulp, *Wastes (Industrial).

The conditions were examined for manufacturing vanillin from the SP waste solution on an industrial scale by using air as an oxidation agent. It was found that it is possible to manufacture vanillin by using air at just about the same yield as when oxygen is used and that, when the SP waste solution is oxidized in the
(Engineering--Chemical, TT, v. 10, no. 2) (over)

63-10754

I. Title: Vanillin
I. Yamashita, C.
II. Asami, A.
III. Kuriyama, S.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Studies on Application of Spray Dry Process. Part II. Function of Protective Colloids in Powdered Flavor Manufacturing Process, by T. Saka.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, No 11, 1961, pp 1995-1998.
NTC 69-11294-07A

Sci-Chem
July 69 386,989

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Studies on Application of Spray Dry Process. Part III. Spray-Drying of Peperment Oil-Gum Arabic-Water Emulsion, by T. Saka.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, No 11, 1961, pp 1998-2001.
NTC 69-11292-07A

Sci-Chem
July 69

386,988

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takami, Yasuo.
R_4Sn-$TiCl_4$ COMPLEX CATALYST FOR ETHYLENE POLYMERIZATION AND THE POLYMER OBTAINED BY THE CATALYST. Rept. 2 of Studies on R_4Sn-$TiCl_4$ Complex Catalyst for Olefine Polymerization. Oct 62 [13]p. (figs. omitted) 4 refs.
Order from SA $18.00 SA Code-G691

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 11, pp 2049-2052.

DESCRIPTORS: *Ethylenes, Polymerization, Molecular structure, *Complex compounds, *Catalysts, *Titanium compounds, Chlorides.

(Chemistry--Physical, TT, v. 8, no. 12)

62-34453

I. Takami, Y.
II. Title: Studies . . .
III. SA Code-G691
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagase, Shunji, Baba, Hajime, and Kojima, Rimpei. EFFECTS OF WATER ON THE PREPARATION OF PERFLUOROCARBOXYLIC ACIDS BY ELECTRO-CHEMICAL FLUORINATION. [1962] 7p. (4 tables omitted) 10 refs.
Order from SLA $1.10
Original copy poor quality; available on loan also

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1961, v. 64, no. 12, p. 2124-2126.

DESCRIPTORS: *Electrochemistry, Fluorination, *Carboxylic acids, *Fluorides, Synthesis, Water, Chemical reactions.

The purpose was to determine how a trace of water (less than 1%) in anhydrous liquid hydrogen fluoride affects the yield, the composition and electric current efficiency on the preparation of perfluorocarboxylic acids from ethyl alcohol, n-propyl alcohol, ethyl (Chemistry--Physical, TT, v. 8, no. 9) (over)

62-14643

I. Nagase, S.
II. Baba, H.
III. Kojima, R.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagase, Shunji, Baba, Hajime, and Kojima, Rimpei. PREPARATION OF PERFLUOROCARBOXYLIC ACID FROM KETONES BY ELECTROCHEMICAL FLUORINATION. [1962] 8p. (5 tables omitted) 10 refs. Order from SLA $1.10 62-14642
Original copy poor quality; available on loan also

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1961, v. 64, no. 12, p. 2126-2128.

DESCRIPTORS: *Electrochemistry, Fluorination, *Carboxylic acids, *Fluorides, Synthesis, *Ketones.

The yield of perfluorocarboxylic acid obtained from ketones by the electrochemical fluorination was excellent. Trifluoroethanoic acids are obtained from acetone, acetyl acetone and ethyl acetoacetate. The mixture of trifluoroethanoic and perfluoropropionic acid were obtained from methyl ethyl ketone and diethyl ketone. The mixture of perfluoropropionic
(Chemistry--Physica, TT, v. 8, no. 9) (over)

62-14642

I. Nagase, S.
II. Baba, H.
III. Kojima, R.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Maruta, Senjiro and Suzuki, Yoshihito.
ANALYSIS OF ALIPHATIC ALDEHYDES. Rept. 5 of Studies on Carbonyl Compounds. Oct 62, 18p. 18 refs. Order from SA $21.00 SA Code-G719

Trans. in manuscript of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 12, p. 2129-2131.

DESCRIPTORS: *Aliphatic compounds, *Aldehydes, Nitro radicals, Phenols, Hydrazines, Paper chromatography, Ultraviolet spectroscopy.

(Chemistry--Analytical, TT, v. 8, no. 12)

62-34468

I. Maruta, S.
II. Suzuki, Y.
III. Title: Studies ...
IV. SA Code-G719
V. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kato, Jiro, Wakamatsu, Hachiro and others.
EFFECTS OF SOLVENTS UPON THE OXO REACTION OF ACRYLONITRILE. Rept. no. 1 of Studies on (Beta) Cyanpropionaldehyde. [1963] 9p. (figs. tables omitted) 15 refs.
Order from SLA $1.10 63-16276

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 12, p. 2139-2142.

DESCRIPTORS: *Acrylonitriles, Oxo process, *Glutamic acid, Solvent action, Synthesis (Chemistry), Reduction (Chemistry), *Aldehydes, *Cyano radicals.

The effects of the solvents upon the oxo reactions of acrylonitrile were investigated as the first stage for the synthesis of glutamic acid from (beta) cyan pripion aldehyde through the oxo reaction of acrylonitrile. Different from the ordinary olefines, the effect of the (over)
(Chemistry--Organic, TT, v. 10, no. 7)

63-16276

1. Title: β-Cyanpropional-dehyde
I. Kato, J.
II. Wakamatsu, H.
III. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kato, Jiro, Wakamatsu, Hachiro and others.
SYNTHESIS OF (BETA) CYANPROPIONALDEHYDE BY OXO REACTION. Rept. no. 2 of Studies on (Beta) Cyanpropionaldehyde [1963] 10p. (figs. tables omitted) 16 refs.
Order from SLA $1.10 63-16277

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64, no. 12, p. 2142-2145.

DESCRIPTORS: *Acrylonitriles, Oxo process, *Glutamic acid, Solvent action, Synthesis (Chemistry), Reduction (Chemistry), *Aldehydes, *Cyano radicals.

It was found that, in the oxo reaction of acrylonitrile, there is less waste of (beta) cyan propion aldehyde in connection with the decomposition of cobalt carbonyl when such solvents as will carry out homomolecular disproportionation with dicobalt carbonyl like Lewis (Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16277

1. Title: β-Cyanpropional-dehyde
I. Kato, J.
II. Wakamatsu, H.
III. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagase, S[hunji], Baba, H., and Kojima, R.
PREPARATION OF PERFLUORO CARBOXYLIC ACIDS BY ELECTROCHEMICAL FLUORINATION OF UNSATURATED COMPOUNDS. [1962] 8p. (8 tables, 6 refs. omitted) 2 refs.
Order from SLA $1.10 62-16190

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 1, p. 38-[41].

DESCRIPTORS: *Carboxylic acids, Acids, *Fluorides, Synthesis, Electrochemistry, Fluorination, Alcohols, Esters, Ketones.

Perfluoro carboxylic acids have been obtained by electrochemical fluorination of unsaturated compounds including alcohols, esters, and ketones. Good yields of perfluoro carboxylic acids have been obtained from esters of unsaturated carboxylic acids just as from saturated esters. Ethyl acrylate, butyl acrylate, and
(Chemistry--Physical, TT, v. 8, no. 9) (over)

62-16190

I. Nagase, S.
II. Baba, H.
III. Kojima, R.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ide, Fumio.
GRAFT COPOLYMERIZATION OF STYRENE ON CELLULOSE. Rept. 11 of Investigation on Vinyl Polymerization. Oct 62, 9p. (figs. omitted) 4 refs.
Order from SA $15.00 SA Code-G21

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 1, p. 88-92.

DESCRIPTORS: *Cellophane, *Styrenes, *Vinyl radicals, Copolymerization, Graft polymers, Catalysts, Nitric acid.

(Materials--Plastics, TT, v. 8, no. 12)

62-34461

I. Ide, F.
II. Title: Investigation ...
III. SA Code-G21
IV. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Preparation of Polyamides From Cyanoethylated Compounds of Bisphenols, by T. Anto, T. Imoto, et al, 14 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV, No 1, 1962, pp 132-136.
ATS-60Q71J

Sci-Chem
March 64

252,099

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nakamura, J., Minegishi, J., and Omoto, Y.
PHOTOCHEMICAL CHLORINATION OF CYCLOHEXANE
[1964] 24p
Order from K-H $14.40 K-H-11949-b

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 2, p. 201-205.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12919

I. Nakamura, J.
II. Minegishi, J.
III. Omoto, Y.
IV. K-H-11949-b
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nakamura, J., Minegishi, J., and Omoto, Y.
FIEDEL-CRAFTS REACTION OF CYCLOHEXYL CHLORIDE WITH BENZENE. [1964] 12p
Order from K-H $7.50 K-H-11949-c

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65 [no. 2] p. 206ff.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12918

I. Nakamura, J.
II. Minegishi, J.
III. Omoto, Y.
IV. K-H-11949-c
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Asahara, Shozo and Mitsuhashi, Keiko.
STUDIES ON THE INTERNAL PLASTICIZING EFFECT OF THE COPOLYMERIZATION OF FATTY ACID VINYL ESTERS WITH VINYL CHLORIDE.
Pt. 4 of Studies on Fatty Acid Vinyl Esters. [1963]
14p. 11 refs.
Order from SLA $1.60 63-14716

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 2, p. 289-292.

DESCRIPTORS: *Plasticizers, *Fatty acids, Vinyl radicals, Esters, *Polyvinyl chloride, *Vinyl chlorides, *Copolymerization, *Phthalates, Fibers (Synthetic), Molecular structure.

Several fatty acid vinyl ester-vinyl chloride copolymers were prepared and their internal plasticizing effects were deduced from their fusion points and
(Materials--Plastics, TT, v. 10, no. 5) (over)

63-14716

I. Asahara, S.
II. Mitsuhashi, K.
III. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ito, Yasuo and Kumano, Kazuhito.
SIMPLE DETERMINATION OF ZINC COMPOUND DUST BY COLORING HALO METHOD. [1963] [11p] (foreign text included)
Order from SLA $1.60 TT-64-10189

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, no. 3, p. 318-323.

DESCRIPTORS: *Zinc compounds, Particles, *Colorimetric analysis, Potassium compounds, Cyanates, Iron compounds, Ethyl radicals, Anilines, Gels, Atmospheric pollution, Dusts,

(Chemistry--Analytical, TT, v. 11, no. 5)

TT-64-10189

1. Title: Coloring halo method
I. Ito, Y.
II. Kusano, K.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Komori, Saburo and Nishio, Takashi.
RESEARCH FOR FLUOROALKYL PERMANENT WATER AND OIL-REPELLENT CHEMICALS. [1962] 7p. (figs. tables formula omitted) 7 refs.
Order from SLA $1.10 62-18697

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 3, p. 368-370.

DESCRIPTORS: *Carbamates, *Fluorides, *Alkyl radicals, Cotton textiles, Moistureproofing, *Oils, Resistance, Textiles.

(Materials--Textiles, TT, v. 10, no. 2)

62-18697

I. Komori, S.
II. Nishio, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Taniyama, Masakazu, Nagaoka, Takeshi, Takata, Toshihiro, and Sayama, Kazumori.
PURIFICATION AND ALKALI-CATALYZED POLYMERIZATION OF α-PYRROLIDONE. Rept. 1 of Studies on Polypyrrolidone (Nylon-4). [1964] 16p 13refs
Order from SLA $1.60 TT-64-16184

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 3, p. 415-418.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16184

I. Taniyama, M.
II. Nagaoka, T.
III. Takata, T.
IV. Sayama, K.
V. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Taniyama, Masakazu, Nagaoka, Takeshi, Takata, Toshihiro, and Sayama, Kazunori.
ALKALI-CATALYZED POLYMERIZATION OF N-PYRROLIDONE IN THE PRESENCE OF N, N'-ADIPYL-DIPYRROLIDONE. Rept. 2 of Studies on Polypyrrolidone (Nylon-4). [1964] 13p 7refs
Order from SLA $1.60 TT-64-16183

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 3, p. 419-422.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16183

I. Taniyama, M.
II. Nagaoka, T.
III. Takata, T.
IV. Sayama, K.
V. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagaoka, Takeshi, Takata, Toshihiro, Sayama, Kazunori, and Taniyama, Masakazu.
ALKALI-CATALYZED POLYMERIZATION OF -PYRROLIDONE IN ORGANIC SOLVENTS. Rept. 3 of Studies on Polypyrrolidone (Nylon-4). [1964] 17p 8refs
Order from SLA $1.60 TT-64-16186

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 3, p. 422-426.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16186

I. Nagaoka, T.
II. Takata, T.
III. Sayama, K.
IV. Taniyama, M.
V. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagaoka, Takeshi, Takata, Toshihiro, Sayama, Kazumori, and Taniyama, Masakazu.
THERMAL STABILITY OF POLYPYRROLIDONE AND THE VISCOSITY OF ITS SOLUTIONS USING CONCENTRATED INORGANIC SALT WATER SOLUTIONS AS SOLVENTS. Rept. 4 of Studies on Polypyrrolidone (Nylon-4). [1964] 16p 14refs
Order from SLA $1.60
TT-64-16187

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 3, p. 427-431.

(Materials--Textiles, TT, v. 12, no. 4)

TT-64-16187

I. Nagaoka, T.
II. Takata, T.
III. Sayama, K.
IV. Taniyama, M.
V. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Effect of Boron, Titanium and Lead Ions
on the Growth of Synthetic Mica Crystals,
by T. Matsushita.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65,
1962, pp 501-507.
NTC-71-15068-20B

Feb 72

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kato, Jiro, Komatsu, Takashi and others.
CHEMICAL PROPERTIES OF (BETA)-CYANPROPION ALDEHYDE. [1963] 14p. (formulas omitted) 17 refs.
Order from SLA $1.60 63-16274

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 4, p. 548-551.

DESCRIPTORS: *Aldehydes, *Cyano radicals, Chemical properties, Polymers, Polymerization, Propionic acids, Oxidation.

(Chemistry--Organic, TT, v. 10, no. 5)

63-16274

1. Title: Cyanpropion aldehyde
I. Kato, J.
II. Komatsu, T.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kato, Jiro; Hayashi, Izumi and others.
PREPARATION OF AN AMMONIA AQUEOUS SOLUTION OF HYDROGEN CYANIDE AND ITS UTILIZATION: SYNTHESIS OF GLUTAMIC ACID FROM (BETA) CYAN PROPIONALDEHYDE. Rept. no. 5 of Studies on (Beta) Cyanpropionaldehyde. [1963] 13p. (figs. tables omitted) 15 refs.
Order from SLA $1.60 63-16275

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 4, p. 552-556.

DESCRIPTORS: *Acrylonitriles, Oxo process, *Glutamic acid, Solvent action, Synthesis (Chemistry), Reduction (Chemistry), *Aldehydes, *Cyano radicals.

Hydrogen cyanide was synthesized in accordance with the Andrussow method which is ordinarily employed as a method for the industrial synthesis of hydrogen (Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16275

I. Title: β-Cyanpropionaldehyde
I. Kato, J.
II. Hayashi, I.
III. Title: Synthesis . . .
IV. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nagaoka, Takeshi, Takata, Toshihiro, Sayama, Kazumori, and Taniyama, Masakazu.
WET-SPINNING AND FIBER PROPERTIES OF POLYPYRROLIDONE. Rept. 5 of Studies on Polypyrrolidone (Nylon-4). [1964] 17p 10refs
Order from SLA $1.60 TT-64-16185

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 4, p. 605-609.

(Materials--Textiles, TT, v. 12, no. 4)

TT-64-16185

I. Nagaoka, T.
II. Takata, T.
III. Sayama, K.
IV. Taniyama, M.
V. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

[Tamura] Akio, Arai, Teijiro, and Murata [Jiro].
IONIC POLYMERIZATION OF DIHYDROPYRAN DERIVATIVES. Jan 64
Order from LSA $10.25

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 4, p. 642.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12327

I. Tamura, A.
II. Arai, T.
III. Murata, J.
IV. Literature Service Associates, Bound Brook, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Shunsuke, Murahashi.
NEW SYNTHETIC POLYMERS. [1964] 28p
Order from K-H $16.80 K-H-12425-a

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 5, p. 643-648.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12917

I. Shunsuke, M.
II. K-H-12425-a
III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Okada, Masahiko.
POLYMERIZATION OF 1,3-DIOXOLANE. [1964] 18p
Order from K-H $10.80 K-H-12425-c

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 5, p. 691-695.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12923

I. Okada, M.
II. K-H-12425-c
III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fujii, Hiroyasu, Saegusa, Takeo, Furukawa, Junji. STEREOBLOCK POLYMERIZATION OF ACETALDEHYDE. Jan 64
Order from LSA $20.00

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 5, p. 695-695.

DESCRIPTORS: *Acetaldehydes, Polymerization, Stereochemistry

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12325

1. Title, Stereoblock polymers
I. Fujii, H.
II. Saegusa, T.
III. Furukawa, J.
IV. Literature Service Associates, Bound Brook, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Saegusa, Takeo, Imai, K., Hirai, Setusuo, and Furukawa, J.
COPOLYMERIZATION OF TETRAHYDROFURAN AND 3,3-BIS(CHLOROMETHYL) OXACYCLOBUTANE. [1964] 16p
Order from K-H $9.60 K-H-12425-e

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 5, p. 699-702.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12927

I. Saegusa, T.
II. Imai, K.
III. Hirai, S.
IV. Furukawa, J.
V. K-H-12425-e
VI. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Okamura, Seizo, Higashimura, Toshinobu, and Tomikawa, Masaya.
POLYMERIZATION OF TRIOXANE CATALYZED BY CATIONIC CATALYST. [1964] 20p
Order from K-H $12.00 K-H-12425-f

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 5, p. 712-716.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12924

I. Okamura, S.
II. Higashimura, T.
III. Tomikawa, M.
IV. K-H-12425-f
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

R-4197-D
Radiation-Induced Polymerization of Crystalline Copolymers, by Yomeho Tabata, et al.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV, 1962, pp 737-740.

*JPRS/Diamond Labs.

June 64

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Takahashi, Tōru.
CALCULATION OF THE VAPOR-LIQUID EQUILIBRIUM FOR THE AMMONIA-CARBON DIOXIDE GAS-WATER SYSTEM BY VAN LAAR'S EQUATION. Rept. 2 of Phase Equilibrium Studies on the Ammonia-Carbon Dioxide Gas-Water System. [1962] 22p. 27 refs.
Order from SLA $2.60 63-10083

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 6, p. 837-843.

DESCRIPTORS: *Phase studies, *Chemical equilibrium, Ammonia, Carbon dioxide, Water, Carbamates, Vapors, Liquids, Determination, Activity coefficient.

(Chemistry--Physical, TT, v. 10, no. 9)

63-10083

I. Title: van Laar equation
I. Takahashi, T.
II. Title: Phase ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Ishii, Y., Sekiguchi, S., and Hayakawa, A.
THE MOLAR DISTRIBUTION OF ALCOHOL-ETHYLENE OXIDE ADDUCTS. [1963] [14p] 11refs
Order from SLA $1.60 TT-63-20245

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, p. 1041-1044. (Abstract available)

DESCRIPTORS: *Surface-active substances, *Alcohols, *Ethylene oxide, Gas chromatography, Catalysts, Sodium

The molar distribution, which governs the nature of nonionic surfacants (surface emulsifiers), was studied, using gas chromatography, for the ethylene oxide adducts of eight $C_1 \sim C_4$ alcohols, prepared at 100° and 130°C using metallic sodium as a catalyst. From these experimental results the distribution constants c of Weibull and Nycander were obtained, and it was found that the main factors governing the c-value are the
(Chemistry--Organic, TT, v. 11, no. 2) (over)

TT-63-20245

1. Title: Adducts
I. Ishii, Y.
II. Sekiguchi, S.
III. Hayakawa, A.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

NCH-200 991 Field 7A

Mizorogi, T.; Nakayama, M.; Ando, Y.; Furumi, M.
BATCH SYNTHESIS OF ACETIC ACID IN AN AUTOCLAVE UNDER HIGH PRESSURE FROM CARBON MONOXIDE AND METHANOL WITH COBALT ACETATE AND POTASSIUM IODIDE AS CATALYST. Rept. no. 1 of Studies on the Reaction of Methanol with Carbon Monoxide with Metal Carbonyl Catalysts. 23 Apr 65, 16p (figs omitted) 5refs. SA-KKZ-65-7-1.
Order from SA: $25.00 as SA-KKZ-65-7-1

Trans. of Kogyo Kagaku Zasshi (Japan) v65 n7 p1049-54 1962.

I. Title: Studies ...
II. Seizaburo Aoki, Fujisawa (Japan)

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

NCH-200 990 Field 7A

Mizorogi, T.; Nakayama, N.; Furumi, S.
MEASUREMENT OF THE REACTION RATE OF ACETIC ACID SYNTHESIS UNDER HIGH PRESSURE FROM CARBON MONOXIDE AND METHANOL WITH COBALT ACETATE AND POTASSIUM IODIDE AS CATALYST. Rept. no. 2 of Studies on the Reaction of Methanol and Carbon Monoxide with the Metal Carbonyl Catalysts. 23 Apr 65, 24p, 3refs. SA-KKZ-65-7-2.
Order from SA: $25.00 as SA-KKG-65-7-2

Trans. of Kogyo Kagaku Zasshi (Japan) v65 n7 p1054-8 1962.

I. Title: Studies ...
II. Seizaburo Aoki, Fujisawa (Japan)

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Saotome, K.
SYNTHESIS OF ε-CAPROLACTAM FROM 1, 1, 1, 5-TETRACHLOROPENTANE. [1963] 6p.
Order from ATS $10.50 ATS-85Q66J

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 7, p. 1059-1061.

DESCRIPTORS: *Lactams, Synthesis, Chlorides, Pentanes.

(Engineering--Chemical, TT, v. 9, no. 9)

63-12813

I. Title: Caprolactam
I. Saotome, K.
II. ATS-85Q66J
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-3846

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Production of Cobalt Trifluoride, by Nobuatsu Watanabe, 11 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV, 1962, pp 1168-1170. 9222614
AEC-UCRL-Tr-1043(L)

Sci-Mat & Met
Jun 64

260,942

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fukui, Kenichi; Yoneda, Shigeo and others.
SYNTHESES OF ORGANIC FLUORINE COMPOUNDS BY THE USE OF POTASSIUM FLUORIDE. Rept. no. 8 of Studies on Organic Synthesis Reactions Using Inorganic Salts. [1963] 13p. 32 refs.
Order from SLA $1.60 63-16423

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 8, p. 1179-1182.

DESCRIPTORS: *Fluorides, *Potassium compounds, *Amides, *Glycols, Alkyl radicals, Esters, Solvents, Butanes, Benzyl radicals, Acetates, Ethyl radicals, Synthesis (Chemistry).

In the method of synthesizing organic fluorine compounds by the reaction between organic halogen compounds and potassium fluoride, the effects of glycols and acid amides as solvents of the reaction were compared, and in particular, the relationship between the
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16423

I. Fukui, K.
II. Yoneda, S.
III. Title: Studies....

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kageyama, Ikuzo, Katsushima, Atsuo and others.
RESEARCH FOR OIL AND WATER REPELLENTS.
[1962] 13p. (figs. tables refs. omitted) 1 ref.
Order from SLA $1.60 62-20485

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, no. 8 [p. 1207-1210].

DESCRIPTORS: Scientific research, Oils, Water, Textiles, *Protective treatments, *Moisture proofing, Fluorides, Polymers, Chlorides, Coatings, Alkyl radicals, Molecular structure

A series of compounds were synthesized employing $F(CF_2)_n$-, $H(CF_2)_n$-, and $Cl(CF_2CFCl)_mCF_2$ as polyfluoroalkyl radicals (hereinafter will be called Rf) and by combining them with various polar groups. Oil and water repellence of cotton gauze which was coated by proper means with these compounds were measured. The repellency of these compounds were compared re- (Materials--Textiles, TT, v. 10, no. 2) (over)

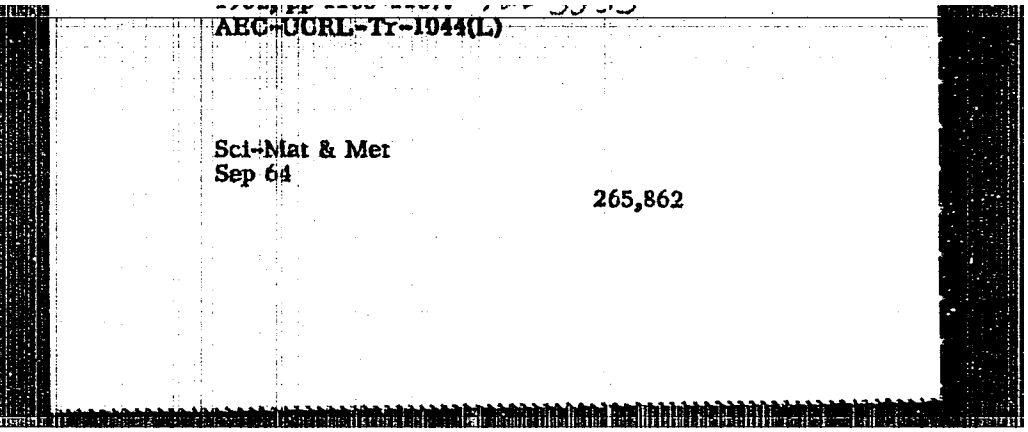
62-20485

I. Kageyama, I.
II. Katsushima, A.

AT3-OTQ 71J

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3



APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Research on the Transition of Polytetrafluoro-Ethylene at 130°C, by T. Satokawa, S. Koizumi, 6 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV,1962, pp 1211-1213. 9226327
AEC-SC-T-64-2008

Sci-Chem
Jan 65

272,456

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Tagawa, K., Iimo, S., and Ohta, H.
THE FRACTIONATION OF NONIONIC SURFACTANTS BY MOLECULAR DISTILLATION. Pt 1 of Molecular Distillation and Properties of Nonionic Surfactants. [1963] 20p 7refs
Order from SLA $1.60 63-20244

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, p. 1260-1265.

DESCRIPTORS: *Distillation, *Surface-active substances, Ethylene oxide, Molecules, Distilling plants, Statistical distributions, Stearic acids, Centrifuges.

The ethylene oxide adducts of four different compounds, i.e. the adduct of nonyl-phenol containing an average of 7.5 moles ethylene oxide, the adduct of octylphenyl, with an average of 10 moles, the adduct of oleyl alcohol with an average of 7 moles and the stearic acid adduct (Engineering--Chemical, TT, v. 10, no. 12) (over)

63-20244

I. Tagawa, K.
II. Iimo, S.
III. Ohta, H.
IV. Title: Molecular . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Preparations and Electrical Conductivities of Polyvinylanthracene and of its Molecular Complexes, by H. Inoue.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65, No 8, 1962, pp 1286-1290.
NTC-71-15513-07D
AEC-ACL-tr-498-17pp

Feb 72

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Koyanagi, S.
TELOMERIZATION OF VINYL CHLORIDE IN CARBON TETRACHLORIDE. [1964] 10p
Order from K-H $6.00 K-H-12641

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, p. 1388-1390.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12916

I. Koyanagi, S.
II. K-H-12641
III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Funatsu, Minoru, Ineda, Masami, and Kita, Hisahiro.
THE CATALYTIC PROPERTIES OF TERTIARY AMINES IN THE FORMATION OF POLYURETHANE.
[1963] [10p] 16refs
Order from SLA $1.60 63-20062

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 9, p. 1426-1430.

DESCRIPTORS: *Isocyanate plastics, *Amines, *Catalysis, Catalysis, Glycols, Ethylenes, Chemical analysis,

The catalytic properties of various tertiary amines in the formation of polyurethane are discussed from the point of view of the catalytic constant derived from the reaction rate. For the formation of polyurethane, toluene diisocyanate was allowed to react with diethylene glycol, propylene glycol, and polypropylene (Materials--Plastics, TT, v. 10, no. 11) (over)

63-20062

I. Funatsu, M.
II. Ineda, M.
III. Kita, H.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Usami [Shoji] and Taketomi, Noboru.
COMPARISON OF MOLASSES AND GLUCOSE MEDIA FOR CITRIC ACID FERMENTATION. [1963] [10p] 6refs
Order from SLA $1.10 63-18870

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 10, p. 1603-[1605].

DESCRIPTORS: *Glucose, *Citric acids, Molds, *Fermentation, Ash, *Culture media, Potassium, Iron

A study was made of acid formation in citric acid fermentation using Asp. niger. in molasses (Taiwan molasses) and glucose media. In molasses medium, the consumption of oxygen in the early stage of the cultivation is fairly bigger and the starting time of acid formation is earlier than those in glucose medium due to the abundant nourishment in the medium. But the amount of citric acid formed is very low and oxalic
(over)

(Biological Sciences--Biochemistry, TT, v. 10, no. 11)

63-18870

1. Title: Molasses
I. Usami, S.
II. Taketomi, N.

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fuel Cells Using Organic Redox Compounds, by
Jun Mizuguchi, Shuichi Suzuki.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65, No 10,
1962, pp 1606-1608.
Tr No 56, Oct 1969
AIR/AFCRL/69-0425

Sci/Chem
Jan 70

400,107

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

The Correlation Between the Molecular Structure of Polyvinyl Chloride and Its Combustion Products, by Sugio Otani. JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65, No 10, pp 1617-1622.
NASA TT F-12,029

Sci-Chem
Mar 69

377,553

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

63-12629

Inoue, H., Hayashi, S. and others.
SYNTHESIS OF ELECTRICALLY CONDUCTIVE CHELATE POLYMERS. [1963] 9p.
Order from ATS $13.25 ATS-02Q67J
AEC-scl-T-503
Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 10, p. 1622-1625.

DESCRIPTORS: *Polymers, *Chelate compounds, Synthesis, Electrical conductance.

(Chemistry--Organic, TT, v. 9, no. 9)

I. Inoue, H.
II. Hayashi, S.
III. ATS-02Q67J
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS JJ-4022

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Radiation-Induced Copolymerization of Tetrafluoroethylene and Propylene at Low Temperature, by Yomeho Tabata, et al.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV, 1962, pp 1626-1629.

*JPRS/Diamond Labs

June 64

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Saito, Hisahiko; Sugihara, Makoto, and Saito, Minoru.
FORMATION OF FERRITE MICROPOWDERS OF SPINEL TYPE. Studies on the Formation of Ferrites from Solutions, 1. [1963] 16p. 14 refs.
Order from SLA $1.60 63-14499

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, p. 1748-1753.

DESCRIPTORS: *Ferrites, Powders, Solutions, Reaction kinetics, Synthesis (Chemistry), Physical chemistry, Hydrogen ion concentration.

A method is given for forming numerous ferrite micropowders of spinel type that were formerly difficult to obtain in the temperature range of 50 ~ 60°C to approximately 100°C. It was found that the concentration of excess alkali plays an important role in the formation (Chemistry--Physical, TT, v. 10, no. 11) (over)

63-14499

I. Saito, H.
II. Sugihara, M.
III. Saito, M.
IV. Title: Studies . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Synthesis of Sodium and Potassium Titanates of Fibrous Form by Hydrothermal Reaction, by Fumio MIZO, Minoru KUNITOMI, 19 pp. JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65, 1962, pp 1775-1779. PS11279867 AEC SC-T-67-0933

336,986

Sci - Materials
Sep 67

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Properties of Sodium Aluminate Solutions, by J. Shimisato,
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXV, No 11, 1962, pp 1779-1782.
ATS 54R79J

Sept 66 309,075

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Yamaki, Kiyoshi.
INTERACTION BETWEEN IONIC DYESTUFFS OF OPPOSITE ELECTRIC CHARGES. [1963] 10p (figs. tables omitted) 6refs
Order from SLA $1.10 63-18514

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65 [no. 11] p. 1861-1865.

DESCRIPTORS: *Dyes, *Chemical reactions, Ions, *Methylene blue, Methanes, Complex compounds, Vinyl chlorides, Surface-active substances, Surface tension, Absorption spectrum, Chemical bonds, Fibers (Synthetic).

The aqueous solutions of ionic dyestuffs of opposite electric charges, orange II (anion and methylene blue (cation), were mixed. To examine the interaction which then takes place between these dyestuffs, the
(Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18514

1. Title: Orange II
I. Yamaki, K.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Hirooka, M. Yuasa, Yukio, and Fukui, Kenichi. PROPERTIES AND BEHAVIOR OF ACTIVE BODY IN ETHYLENE -POLYMERIZATION WITH VANADIUM (V) OXYGHLORIDE-ALUMINUM CATALYZER. Pt. 3 of High Polymerization of Olefins with Lewis-Acid-Metal-[lic] Catalyst. [1963] 16p 8refs
Order from SLA $1.60 63-18858

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, no. 11, p. 1865-1868.

DESCRIPTORS: *Polyethylene plastics, Preparation, *Ethylenes, *Polymerization, *Vanadium catalysts, Vanadium compounds, *Oxychlorides, *Aluminum, Reaction kinetics, Complex compounds.

An ethylene polymerization was conducted at a constant pressure in the presence of vanadium (V)-oxychloride-aluminum as catalyst and the properties of the active
(Chemistry--Physical, TT, v. 10, no. 11) (over)

63-18858

I. Hirooka, M.
II. Yuasa, Y.
III. Fukui, K.
IV. Title: High ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Hirooka, M. and Fukui, Kenichi.
AN EXAMINATION OF THE POLYMERIZATION MECHANISM OF ETHYLENE BY CATALYST VANADIUM(V)-OXYCHLORIDE ALUMINUM. Pt. 4 of High Polymerization of Olefins with Lewis Acid-Metallic Catalyst. [1963] 28p (refs omitted) 7refs
Order from SLA $2.60 63-18857

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, no. 11, p. 1869-1874.

DESCRIPTORS: *Polyethylene plastics, Preparation, *Ethylenes, *Polymerization, *Vanadium catalysts, Vanadium compounds, *Oxychlorides, *Aluminum, Reaction kinetics, Complex compounds.

The characteristics of the polymerization of ethylene with the use of the catalyst vanadium(V) oxychloride-aluminum and the behavior of the catalyst were studied and an examination was made of the characteristics of
(Chemistry--Physical, TT, v. 10, no. 10) (over)

63-18857

I. Hirooka, M.
II. Fukui, K.
III. Title: High ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Bansho, Yoshie; Suzuki, Shigeru and others.
RELATIONSHIP OF STRUCTURE TO CRYSTALLINE TRANSFORMATION GROWTH IN MIXED PHTHALOCYANINE PIGMENTS. PT. 3 of Phthalocyanine Organic Pigment Study. [1963] 10p. 2 refs.
Order from SLA $1.10 63-16644

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 12, p. 2005-2009.

DESCRIPTORS: *Phthalocyanines, *Pigments, *Copper compounds, *Crystallization, *Transformations, Crystal structure, Cobalt compounds, Iron compounds, Titanium compounds, Chlorides.

Crystals of metastable copper phthalocyanine undergo crystalline transformation in an aromatic solvent and grow into stable elongated needle crystals. In order to improve this property, mixed pigments were prepared (Physics--Solid State, TT, v. 10, no. 7) (over)

63-16644

I. Bansho, Y.
II. Suzuki, S.
III. Title: Phthalocyanine...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Bansho, Yoshie, Sekiguchi, Tatsuo, and Suzuki, Shigeru.
SYNTHESIS OF COPPER PHTHALOCYANINE SULFATE AND ITS PROPERTIES. Rept. 5 of Studies of Phthalocyanine Organic Pigments. [1963] [17p] 8refs
Order from SLA $1.60 63-18741

Trans. of Kogyo Kagaku Zasshi (Japan) [1962] v. 65, no. 12, p. 2015-2017.

DESCRIPTORS: *Dyes, *Organic pigments, *Phthalocyanines, Copper compounds, Sulfates, Metalorganic compounds, Synthesis (Chemistry), Chemical properties, Physical properties, Molecular structure, X-ray diffraction analysis, Infrared spectroscopy

When copper phthalocyanine reacts with undiluted sulfuric acid in suitable organic solvents the sulfate is separated. The sulfate was separated in pure form by removing the sulfuric acid attached to its crystals. In
(Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18741
I. Title: Copper phthalocyanine sulfate
I. Bansho, Y.
II. Sekiguchi, T.
III. Suzuki, S.
IV. Title: Studies...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Bansho, Yoshio, Suzuki, Shigeru and others.
SYNTHESIS OF BROMINE-SUBSTITUTED COPPER PHTHALOCYANINES AND THEIR SUITABILITY AS PIGMENTS. Rept. 8 of Studies on Phthalocyanine Organic Pigments. [1963] [17]p. 11 refs.
Order from SLA $1.60 63-18512

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 12, p. 2027-2032.

DESCRIPTORS: *Dyes, *Organic pigments, *Metal-organic compounds, *Copper compounds, *Phthalocyanines, *Bromides, Synthesis (Chemistry), Phthalic anhydride, Bromination, Metallation, Physical properties, Chemical properties.

Studies were made on the method of synthesizing pigments, in which the aromatic nucleus of copper phthalocyanines is substituted with 1~16 bromine (Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18512

1. Title: Bromo copper phthalocyanines
I. Bansho, Y.
II. Suzuki, S.
III. Title: Studies ...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Potential of Synthetic Vinyl Fibers and Their Surface Charge Densities, by K. Yamaki.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 65, No 12, 1962, pp 2036-2042.
NTC 69-11291-11E

ATS-J.S.304

Sci-Mat
July 69

387,121

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Studies of Antistatic Agents for PVC. Part I.,
by T. Yamamoto.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 66, 1963.
NTC-71-16224-11I

Jan 72

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kamio, K., Kojima, S., and Daimon, H.
POLYMERIZATION OF ALDEHYDES. [1963] 7p.
Order from ATS $9.25 ATS-95Q69J

Trans. of Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 2, p. 246-249.

DESCRIPTORS: *Aldehydes, *Polymerization.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17780

I. Kamio, K.
II. Kojima, S.
III. Daimov, H.
IV. ATS-95Q69J
V. Associated Technical Services, Inc., East Orange, N. J.

ATS JJ-3815

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Kawai, W.
COPOLYMERIZATION OF PROPYLENE WITH ACRYLONITRILE. [1963] 6p.
Order from ATS $9.25 ATS-96Q69J

Trans. of Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 2, p. 249-252.

DESCRIPTORS: *Polyethylene plastics, *Acrylic resins, *Propenes, *Acrylonitriles, Copolymerization.

(Materials--Plastics, TT, v. 10, no. 9)

63-22153

I. Kawai, W.
II. ATS-96Q69J
III. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Mechanism of Delignification in Alkaline Sulfite Cooking, by I. Sakata.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 66, No 2, 1963, pp 272-275.
NTC-71-16210-11L

Jan 72

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Yoshimi, Naoki, Yamao, Masayoshi, Kawakita, Masayuki, and Tanaka, Shigeyuki.
CONSIDERATIONS ON THE HARDENING REACTION OF METHYLOLMELAMINE BY GAS CHROMATOGRAPHY AND INFRARED ABSORPTION SPECTROSCOPY. [1963] 12p 13refs
Order from SLA $1.60 63-18909

Trans. of Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 2, p. 279-283.

DESCRIPTORS: *Melamine-formaldehyde resins. *Thermosetting plastics, *Melamine, *Amino plastics, *Amines, *Methyl radicals, Hardening, Heat treatment, Gas chromatography, Infrared spectroscopy, Condensation reactions

In order to determine the mechanism of the heat-hardening reaction of methylolmelamine, the gaseous substance which evolves from a heated sample was (Materials--Plastics, TT, v. 10, no. 10) (over)

63-18909

1. Title: Methylolmelamine
I. Yoshimi, N.
II. Yamao, M.
III. Kawakita, M.
IV. Tanaka, S.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Decomposition of Monazite Concentrate by Sodium Hydroxide, by Katsumata, Shigeru, Tokumoto, 10 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, 1963, vol 66, no 3, pp 324-326.
SLA TT 64-18102

Jul 66 305,455 6

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Noda, Hidoo, Tatzuno, Toshio, and Fukui, Kenichi. REACTION OF C_4-OLEFINS AND FORMALDEHYDE. [1964] 17p
Order from K-H $10.20 K-H-12963

Trans. of Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 3, p. 348-351.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12921

I. Noda, H.
II. Tatzuno, T.
III. Fukui, K.
IV. K-H-12963
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Fujio, R., Tsuruta, T., and Furukawa, J.
ANIONIC POLYMERIZATION OF VINYL KETONES.
Rept. 24 of Researches for Polymerization Reactions by Organic Metallic Compounds. [1963] 10p 10refs
Order from SLA $1.10 TT-63-20687

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1963, v. 66, no. 3, p. 365-369. (Abstract available)

DESCRIPTORS: *Vinyl plastics, Plastic films, *Vinyl radicals, Methyl radicals, Propyl radicals, Phenyl radicals, *Ketones, *Polymerization, Catalysts, *Metalorganic compounds, Metallic compounds, Ethyl radicals.

By anionic polymerization of several kinds of vinyl ketones (methyl vinyl ketone, phenyl vinyl ketone and methyl isopropenyl ketone) the possibilities of stereo-
(Materials--Plastics, TT, v. 11, no. 3) (over)

TT-63-20687

1. Title: Polymethyl isopropenyl ketone
2. Title: Polymethyl vinyl ketone
3. Title: Polyphenyl vinyl ketone
I. Fujio, R.
II. Tsuruta, T.
III. Furukawa, J.
IV. Title: Researches . . .

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Nishizaki, Shunichiro and Fukami, Akira.
DIFFERENTIAL THERMAL ANALYSIS OF AROMATIC POLYIMIDES. [1964] 7p (figs tables formulae refs omitted)
Order from SLA $1.10 TT-64-10958

Trans. of Kogyo Kagaku Zasshi (Japan) 1963, v. 66, no. 3, p. 332-336.

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-10958

I. Nishizaki, S.
II. Fukami, A.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3

Solid State Reactions of the Titanium-Oxide Zinc-Oxide System, by Toruichiro Kubo and Masanori Kato, et al,
GOVERNMENT USE ONLY
JAPANESE, per, Kogyo Kagaku Zasshi, Vol. LVI, No 4, 1963, pp 403-407. P2C0094067
RSIC-641

Sci-Chem
Apr 67

324,452

APPROVED FOR RELEASE: Tuesday, June 04, 2002 CIA-RDP84-00581R000301080012-3